Ham-Space Digest   Sun, 2 Oct 94   Volume 94 : Issue 276

Today's Topics:
                   Is there a microsat FAQ? (2 msgs)
                  STS-68 Orbital State Vector Rev #17
                            test gateway
            Will an ICOM R7100 Work for APT/AVHRR Reception

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 1 Oct 1994 17:20:20 GMT
From: rparsons@tcet.unt.edu (Ron Parsons)
Subject: Is there a microsat FAQ?

>Sounds like I'll need a new tnc, a new modem, and some expensive
>software.

Perhaps I didn't make myself clear. Your TNC (with mods) should be ok.
You will need a modem appropriate to the sat. The software is not expensive.
Most is available only for DOS (i'd suggest PB/PG/SatSked) or Windows
(I'd suggest WiSP) all available very cheaply from AMSAT.

If you will be going in for more than a single mode, then the DSP route
makes sense. The available DSP modems are VERY stable. Recommend AEA
DSP-2232 (good support), DSP-12 (support seems absent but the unit works
well), and soon to be available from TAPR -- DSP-93 kit.

The 9600 bps sats are very busy, but there's always room for one more.

Ron W5RKN

In article <36hndj$r6a@hermes.unt.edu> Ron Parsons, rparsons@tcet.unt.edu
writes:
In article <36hndj$r6a@hermes.unt.edu> Ron Parsons, rparsons@tcet.unt.edu
writes:
>You asked a lot of questions, but I'll try. As far as stroe-and-forward
>sats, in general there are the 1200 bps ones and 9600 bps ones. Other
>than having to make minor mods to your rig, the 9600 ones are easiest to
>use and much faster also. UO-22, KO-23 and KO-25 are the current ones.
>You will need a 9600 bps modem, TAPR has a kit, but you need a modem
>disconnect header, which the 232 doesn't have I believe. I think TAPR
>also as a header add-on kit also. TAPR/AMSAT also now has a DSP modem
kit
>DSP-93. Contact AMSAT for software (you should be a member if you use
the
>sats.
>
>Ask more specific question and I'll try to answer.
>
>Ron W5RKN

Sounds like I'll need a new tnc, a new modem, and some expensive
software. I've been an amsat member when I was more active, but I think
I'm lapsed now. I was hoping to be able to do it as an incremental step
up on the current station. The dsp modems still sound like the best way
to deal with the changing states of digital communications, but it
doesn't seem that they are very stable yet either.

Still, it would be a good way to keep in touch with the boat. How busy
are the satellites?

Kevin

Vector format = 117
Satellite Name: STS-68

```
Catalog Number:          23285  94062A
Epoch Date/Time:         94274.50272710648
                         10/01/1994  12:03:55.622 UTC
EFG E:                      -12272641.26 ft
    F:                        1473396.33 ft
    G:                      -17765702.36 ft
    Edot:                      -9020.6119 ft/s
    Fdot:                     -22502.3520 ft/s
    Gdot:                       4362.0116 ft/s
ndot/2 (drag):             0.00136673066 rev/day^2
nddt/6:                       7.68565E-08 rev/day^3
Bstar:                        6.78387E-05 1/Earth Radii
Elset #:                                3
Rev @ Epoch:              17.78269246691
```

MSDOS/PC software is available for conversion of
OSV to 2 Line Keplerian Elements via ftp to:
oak.oakland.edu:/pub/msdos/hamradio/v2l9331.zip
and the SIMTEL archives.

State Vectors courtesy Ken Ernandes N2WWD

SM

Date: 1 Oct 94 23:14:51 GMT
From: root@network.UCSD.EDU (Rooty-Toot-Toot)
Subject: test gateway

test2

Date: 1 Oct 1994 15:52:39 GMT
From: Ken Terry <ken_terry@macmail.eng.gulfaero.com>
Subject: Will an ICOM R7100 Work for APT/AVHRR Reception

I have used an ICOM R9000 with success downloading APT/AVHRR signals,
however I have a friend that wants to get into this a 'little' cheaper.
Has anyone had any success getting APT/AVHRR downloads with success from
an ICOM R7100. If so, did any adjustments have to be made to the
bandwidth. I am not familiar with this unit, and do not know if there is
an adjustment for this on the front control panel. I have info coming
from ICOM, however I would rather hear from the real users of this
equiptment.

Thanks in advance!

Ken